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STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY
3100 Port of Benton Blvd • Richland, WA 99352 • (509) 372-7950

January 31, 2005

Mr. Don L. Flyckt
Liquid Waste Processing Facilities
Fluor Hanford, Inc.
P.O. Box 1000, MSIN: S5-31
Richland, Washington 99354

Dear Mr. Flyckt:

Re: Ecology Approval of the 207-SL Retention Basin Wastewater Characterization Evaluation under State Waste Discharge Permit ST 4500

Reference: FH-0404012, Letter, from D.L. Flyckt, FH, to K. Conaway, Ecology dated January 6, 2005

The Washington State Department of Ecology (Ecology) has reviewed the 207-SL Retention Basin Wastewater Characterization Evaluation for treatment in the Effluent Treatment Facility (ETF) and the discharge to the State-Approved Land Disposal Site (SALDS). The expectation is that the 222-S Laboratory will ship about 80,000 gallons of the 207-SL Retention Basin wastewater containing sorbitan compounds to the ETF for treatment.

ETF's attached evaluation summary stated that the wastewater is primarily steam condensate used for heating buildings. It explained that the wastewater is typically collected, sampled, and discharged to the 200 Area Treated Effluent Disposal Facility (TEDF), but is transferred to ETF when iron concentrations exceed TEDF effluent discharge limits. ETF has demonstrated and Ecology agrees that the ETF can effectively treat sorbitan compounds to below background levels, as summarized in Table 1 of the submitted Characterization Evaluation. The information provided meets the requirement of Permit Condition S.9, Influent Criteria. Ecology has determined that the proposed new influent, 207-SL Retention Basin wastewater (steam condensate) with the addition of sorbitan monostearate, ethoxylated sorbitan monostearate, and ethoxylated sorbitan monolaurate (described in the characterization and engineering evaluation along with the influent description) can be accepted into the ETF for treatment and discharge. In addition, Ecology agrees that all known, available, and reasonable methods of treatment (AKART) were evaluated and the ETF is considered as the best available technology/AKART for treatment of the field testing waste. **Ecology grants approval and the Liquid Processing and Capsule Storage can begin treating the subject wastewater.**

ST 4500 Permit Condition S.9, (3.) requires that new influent streams be reported to Ecology each calendar quarter, at the same time as the Discharge Monitoring Report for that calendar quarter is submitted.

If you have any questions, please contact me at (509) 372-7890.

Sincerely,

Kathy A. Conaway
LPCS Permit Manager
Nuclear Waste Program

KAC:nc

cc: Nick Ceto, EPA
Briant Charboneau, USDOE
Joel B. Hebdon, USDOE
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